

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092420\  
 Data File : VN063665.D  
 Acq On : 25 Sep 2020 7:01  
 Operator : JC/MD  
 Sample : L4119-18 20X  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 51 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TT101D2-20200922

Quant Time: Sep 25 07:33:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091620W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 16 13:05:20 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 187382   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 360482   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 358946   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 152008   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.99  | 65   | 168898   | 52.95 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.90% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 122715   | 49.17 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.34%  |          |
| 50) Toluene-d8              | 10.06 | 98   | 466991   | 49.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.54%  |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 179380   | 52.15 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.30% |          |

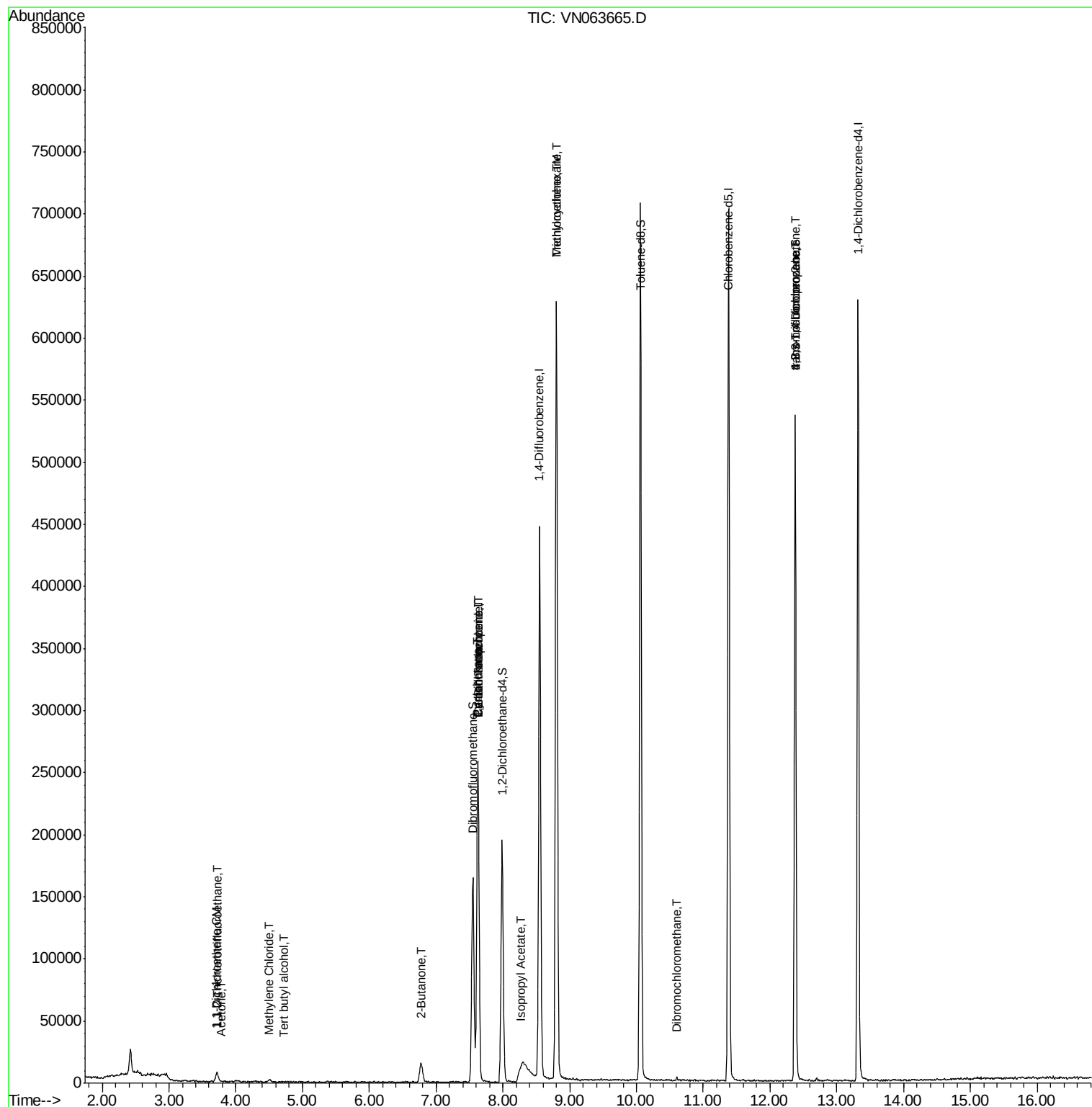
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 9) 1,1,2-Trichlorotrifluoroet  | 3.72  | 101  | 2514     | 1.204  | ug/l # | 88     |
| 11) Tert butyl alcohol         | 4.72  | 59   | 261      | 0.591  | ug/l # | 72     |
| 12) 1,1-Dichloroethene         | 3.70  | 96   | 677      | 0.320  | ug/l # | 66     |
| 16) Acetone                    | 3.77  | 43   | 360      | 0.351  | ug/l # | 47     |
| 20) Methylene Chloride         | 4.51  | 84   | 553      | 0.213  | ug/l # | 71     |
| 25) 2-Butanone                 | 6.78  | 43   | 1012     | 0.642  | ug/l # | 51     |
| 31) Cyclohexane                | 7.61  | 56   | 5512     | 1.251  | ug/l # | 47     |
| 36) 1,1-Dichloropropene        | 7.62  | 75   | 17769    | 4.627  | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 21431    | 5.467  | ug/l # | 17     |
| 39) Methylcyclohexane          | 8.80  | 83   | 2891     | 0.694  | ug/l # | 1      |
| 43) Isopropyl Acetate          | 8.26  | 43   | 9277     | 1.376  | ug/l # | 64     |
| 44) Trichloroethene            | 8.80  | 130  | 208979   | 78.592 | ug/l   | 98     |
| 60) Dibromochloromethane       | 10.60 | 129  | 601      | 0.203  | ug/l # | 10     |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 101531   | 26.986 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 101531   | 73.984 | ug/l # | 7      |

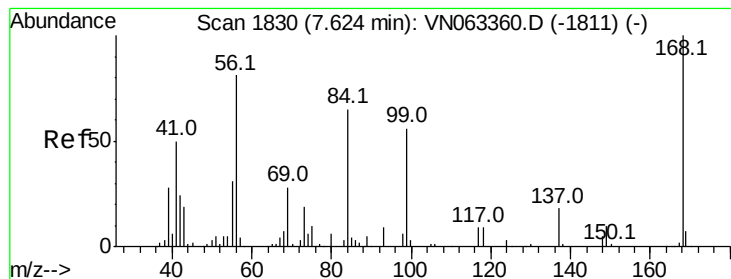
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Sep 16 13:05:20 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063665.D

Acq: 25 Sep 2020 7:01

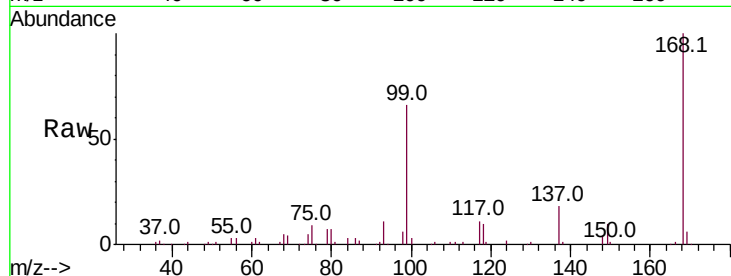
Instrument :  
MSVOA\_N  
ClientSampleId :  
TT101D2-20200922

Tot Ion:168 Resp: 187382

Ion Ratio Lower Upper

168 100

99 66.1 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

80000

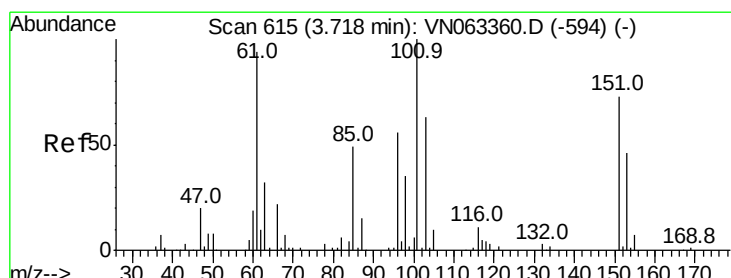
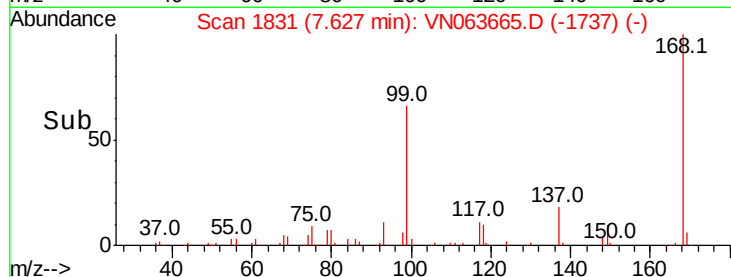
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.204 ug/l

RT: 3.72 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN063665.D

Acq: 25 Sep 2020 7:01

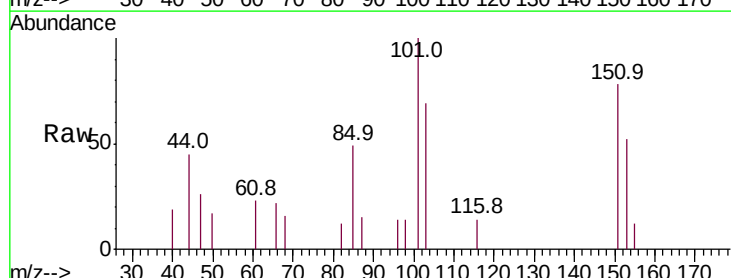
Tgt Ion:101 Resp: 2514

Ion Ratio Lower Upper

101 100

85 60.6 37.7 56.5#

151 78.3 57.7 86.5



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V

2000

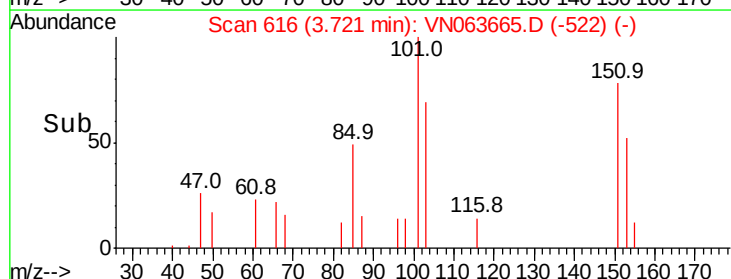
1500

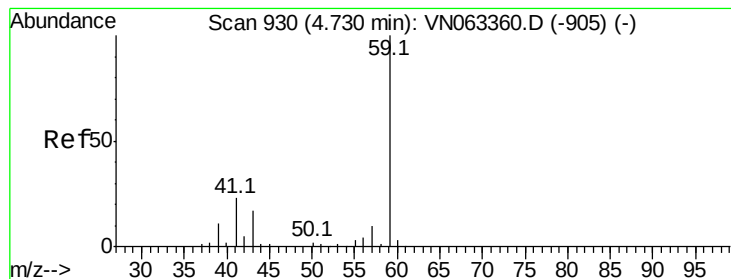
1000

500

0

Time--> 3.70 3.75



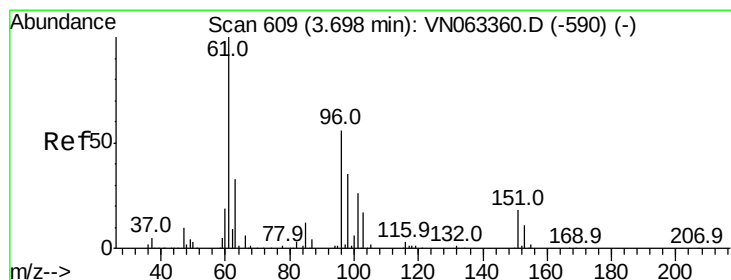
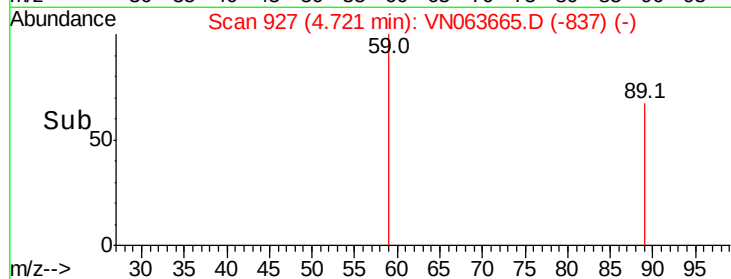
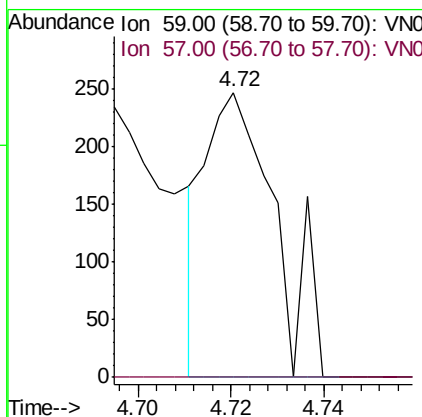
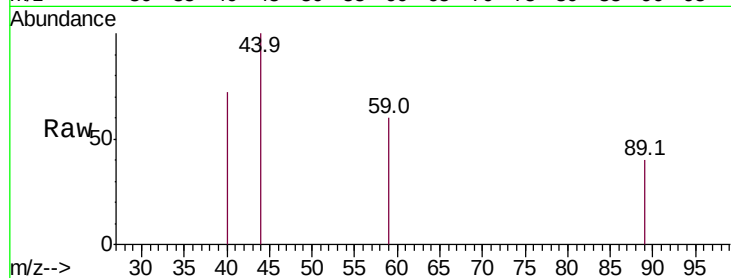


#11

Tert butyl alcohol  
Concen: 0.591 ug/l  
RT: 4.72 min Scan# 927  
Delta R.T. -0.01 min  
Lab File: VN063665.D  
Acq: 25 Sep 2020 7:01

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT101D2-20200922

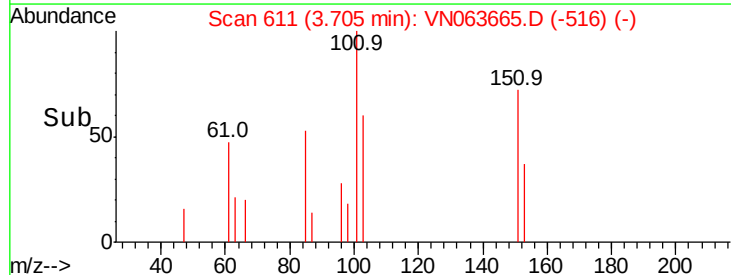
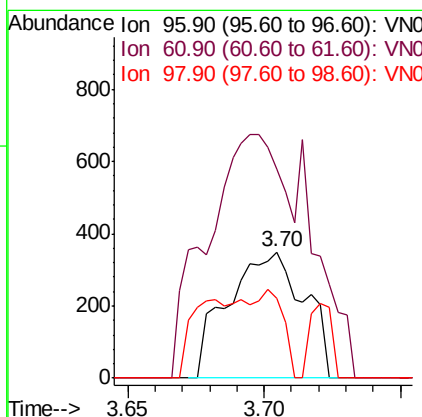
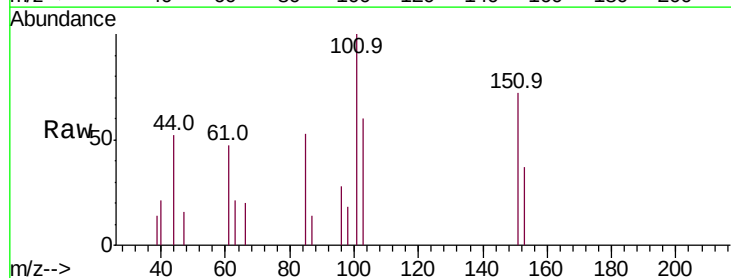
Tot Ion: 59 Resp: 261  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.4 12.6#

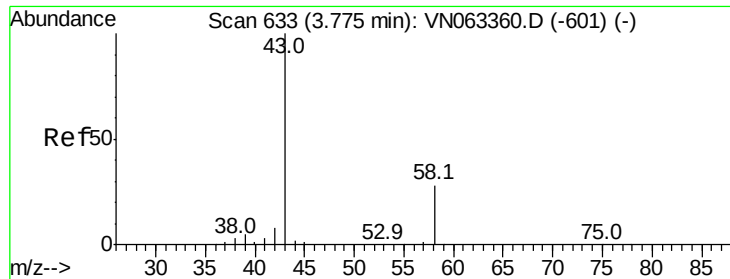


#12

1,1-Dichloroethene  
Concen: 0.320 ug/l  
RT: 3.70 min Scan# 611  
Delta R.T. 0.01 min  
Lab File: VN063665.D  
Acq: 25 Sep 2020 7:01

Tgt Ion: 96 Resp: 677  
Ion Ratio Lower Upper  
96 100  
61 113.8 143.4 215.2#  
98 63.3 50.6 76.0





#16

Acetone

Concen: 0.351 ug/l

RT: 3.77 min Scan# 632

Delta R.T. -0.00 min

Lab File: VN063665.D

Acq: 25 Sep 2020 7:01

Instrument :

MSVOA\_N

ClientSampleId :

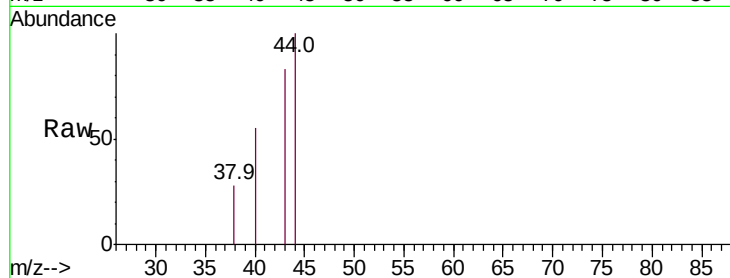
TT101D2-20200922

Tot Ion: 43 Resp: 360

Ion Ratio Lower Upper

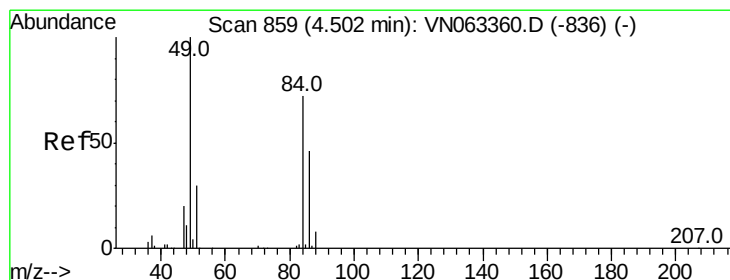
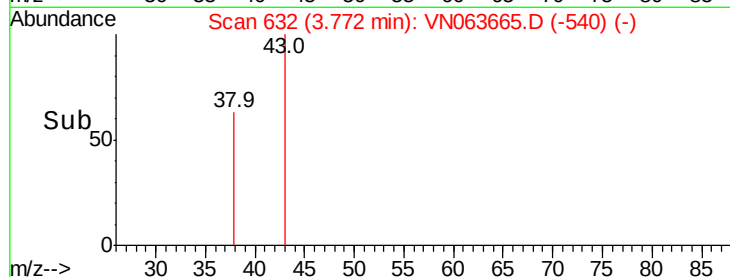
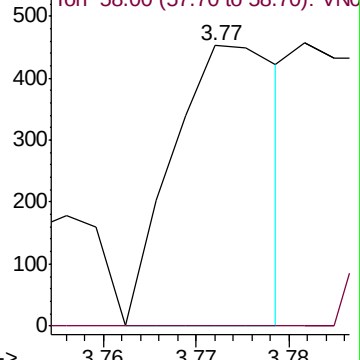
43 100

58 0.0 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#20

Methylene Chloride

Concen: 0.213 ug/l

RT: 4.51 min Scan# 861

Delta R.T. 0.01 min

Lab File: VN063665.D

Acq: 25 Sep 2020 7:01

Tgt Ion: 84 Resp: 553

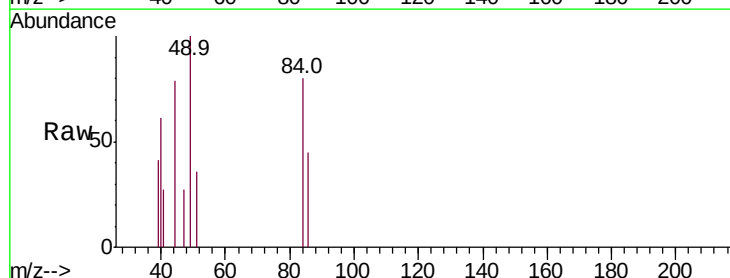
Ion Ratio Lower Upper

84 100

49 84.1 110.7 166.1#

51 45.5 32.9 49.3

86 56.7 51.1 76.7

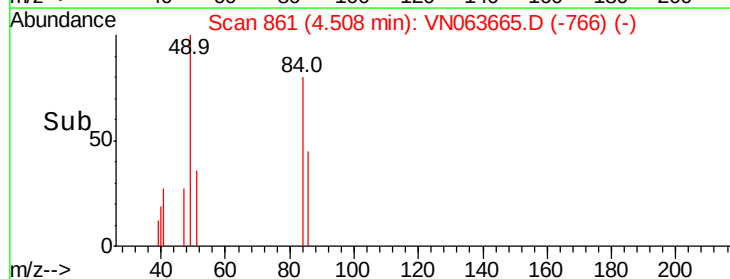
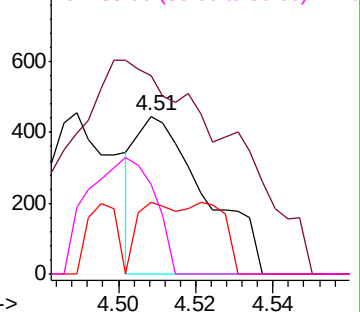


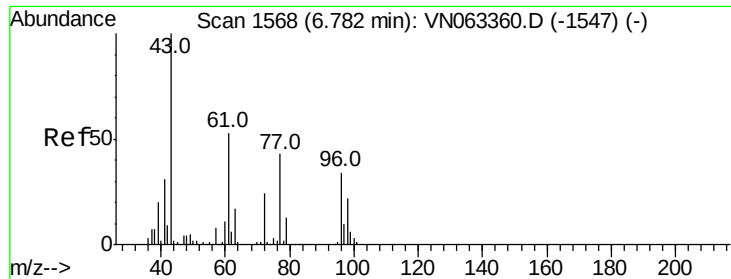
Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0

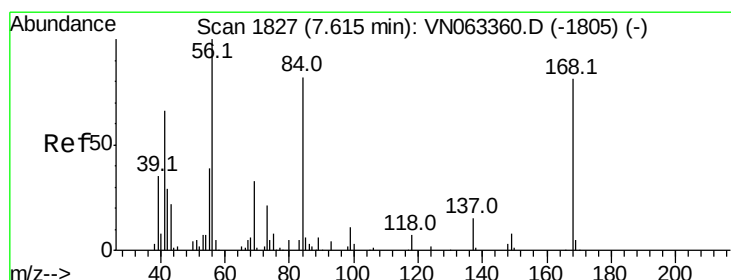
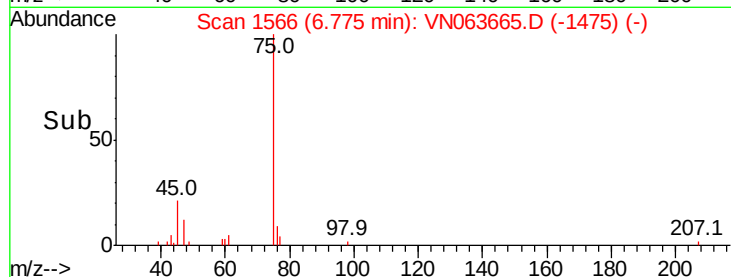
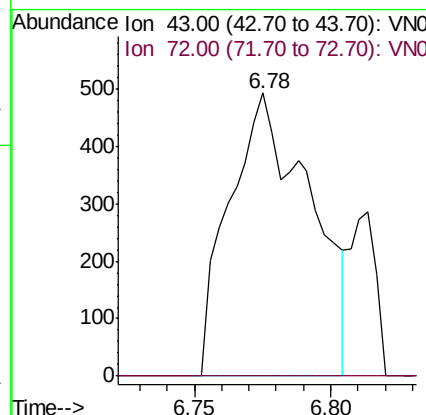
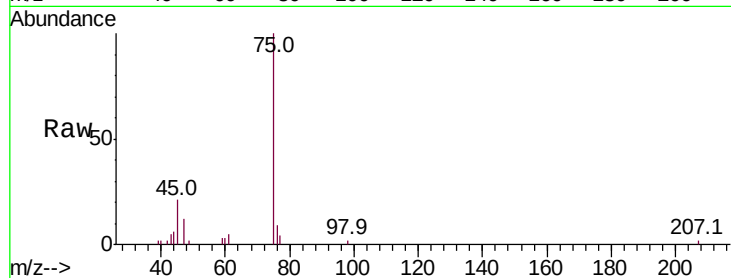




#25  
2-Butanone  
Concen: 0.642 ug/l  
RT: 6.78 min Scan# 1566  
Delta R.T. -0.01 min  
Lab File: VN063665.D  
Acq: 25 Sep 2020 7:01

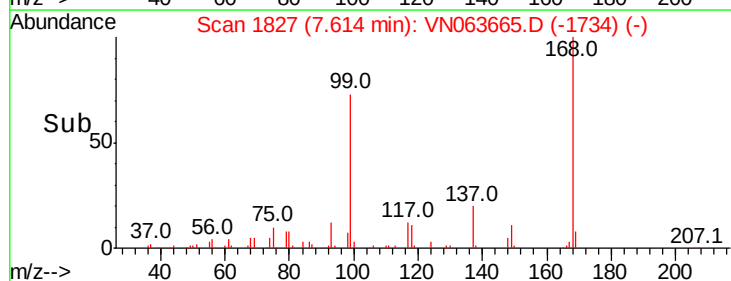
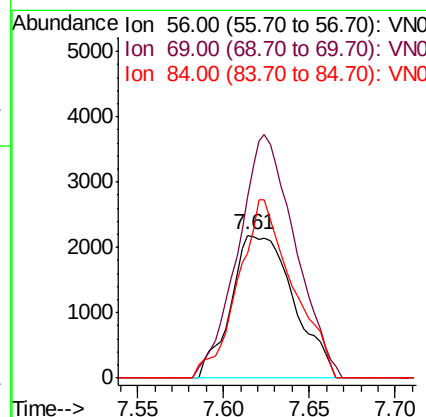
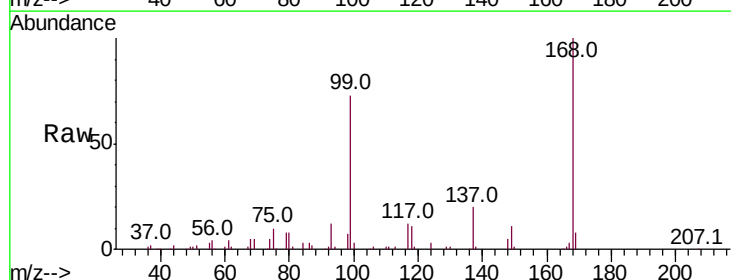
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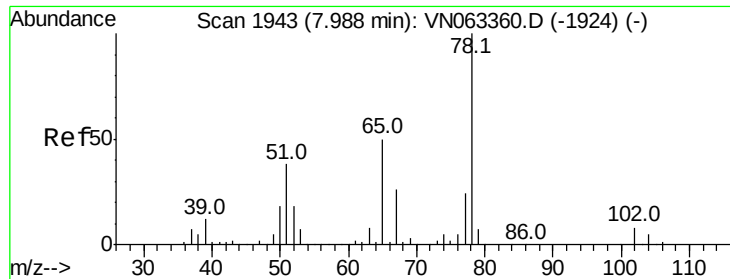
Tot Ion: 43 Resp: 1012  
Ion Ratio Lower Upper  
43 100  
72 0.0 19.2 28.8#



#31  
Cyclohexane  
Concen: 1.251 ug/l  
RT: 7.61 min Scan# 1827  
Delta R.T. -0.00 min  
Lab File: VN063665.D  
Acq: 25 Sep 2020 7:01

Tgt Ion: 56 Resp: 5512  
Ion Ratio Lower Upper  
56 100  
69 127.1 26.1 39.1#  
84 87.7 65.4 98.2

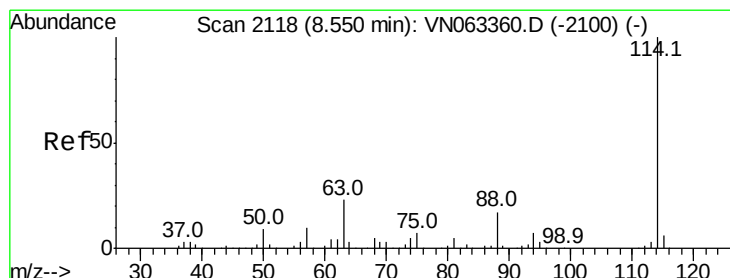
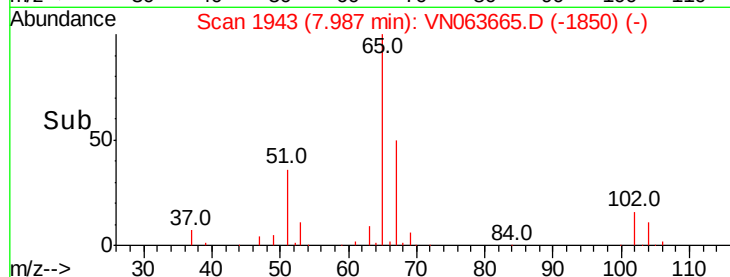
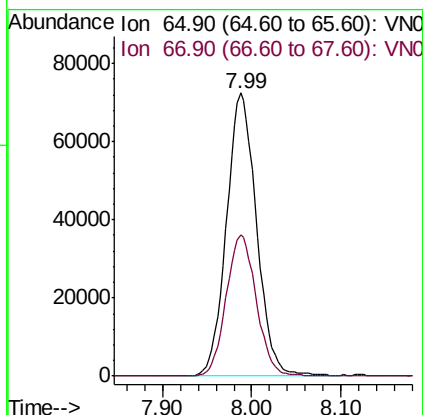
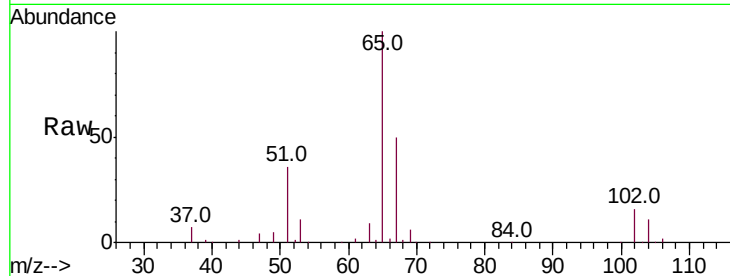




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.950 ug/l  
 RT: 7.99 min Scan# 1943  
 Delta R.T. -0.00 min  
 Lab File: VN063665.D  
 Acq: 25 Sep 2020 7:01

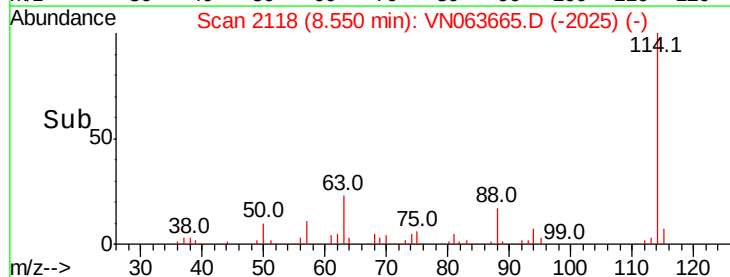
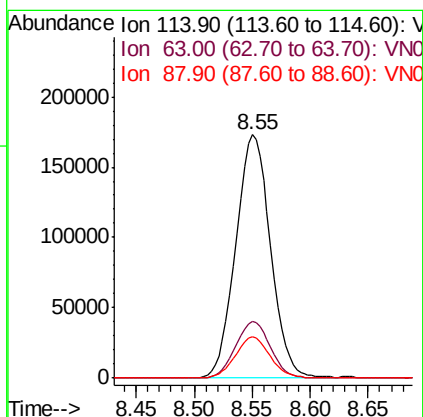
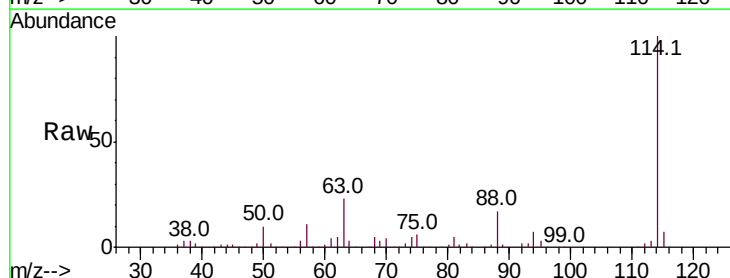
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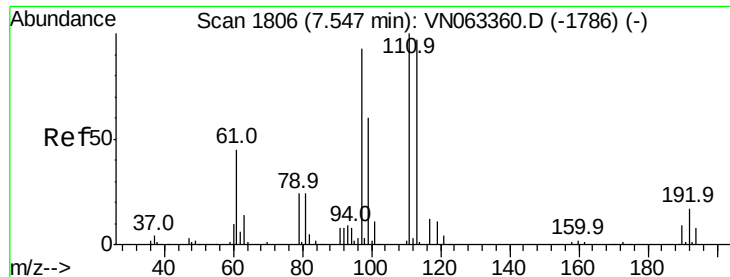
Tot Ion: 65 Resp: 168898  
 Ion Ratio Lower Upper  
 65 100  
 67 49.9 0.0 104.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2118  
 Delta R.T. -0.00 min  
 Lab File: VN063665.D  
 Acq: 25 Sep 2020 7:01

Tgt Ion: 114 Resp: 360482  
 Ion Ratio Lower Upper  
 114 100  
 63 23.3 0.0 46.4  
 88 17.1 0.0 33.2





#35

Dibromofluoromethane

Concen: 49.174 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063665.D

Acq: 25 Sep 2020 7:01

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT101D2-20200922

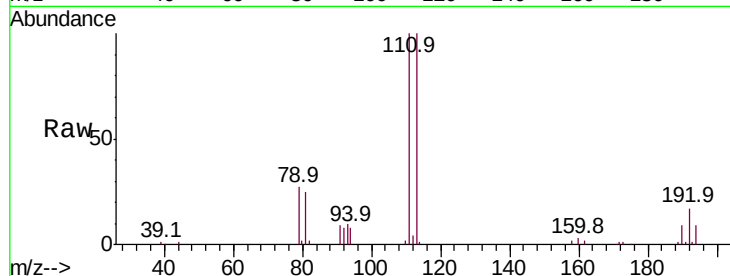
Tot Ion:113 Resp: 122715

Ion Ratio Lower Upper

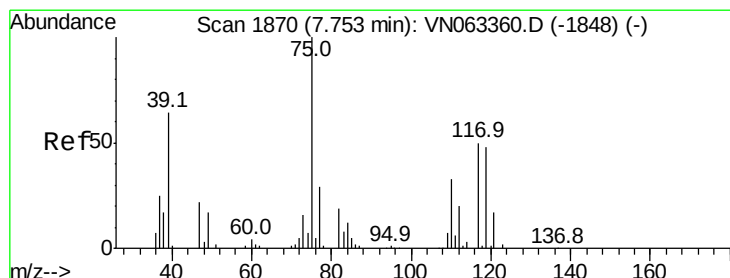
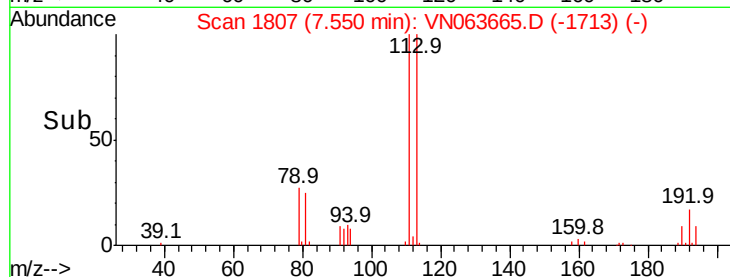
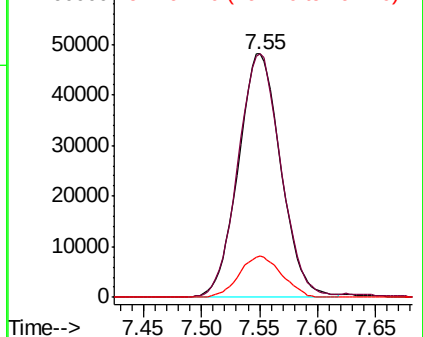
113 100

111 100.6 82.9 124.3

192 17.1 13.9 20.9



Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.627 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. -0.13 min

Lab File: VN063665.D

Acq: 25 Sep 2020 7:01

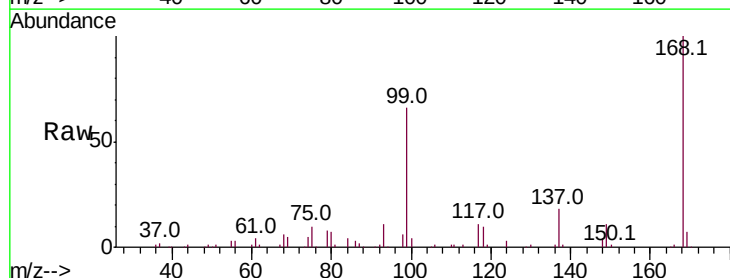
Tgt Ion: 75 Resp: 17769

Ion Ratio Lower Upper

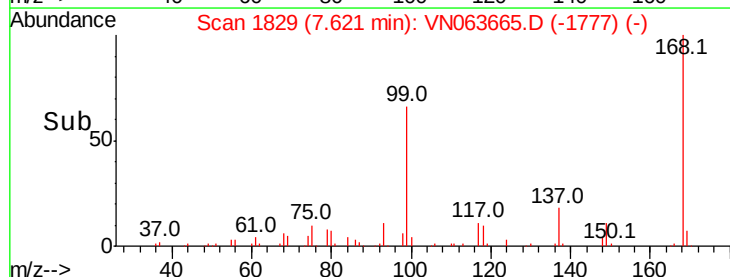
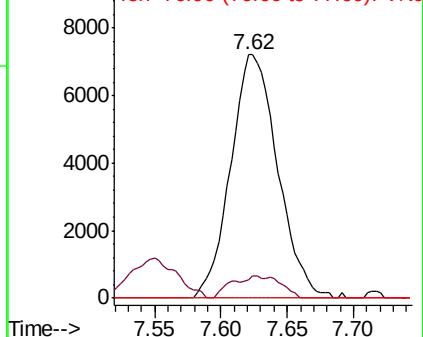
75 100

110 6.3 16.5 49.5#

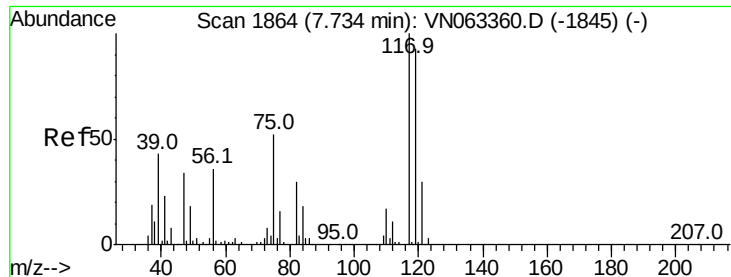
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VNO  
Ion 109.90 (109.60 to 110.60): V  
Ion 76.90 (76.60 to 77.60): VNO







#38

Carbon Tetrachloride

Concen: 5.467 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063665.D

Acq: 25 Sep 2020 7:01

Instrument :

MSVOA\_N

ClientSampleId :

TT101D2-20200922

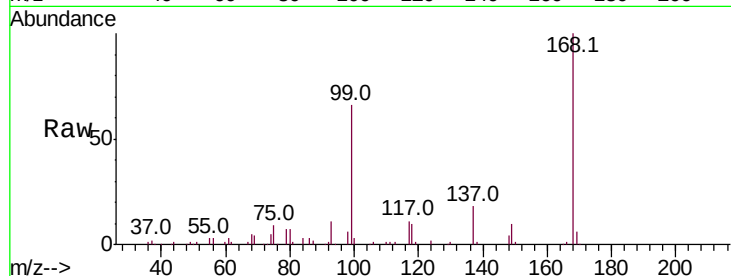
Tot Ion:117 Resp: 21431

Ion Ratio Lower Upper

117 100

119 4.8 74.5 111.7#

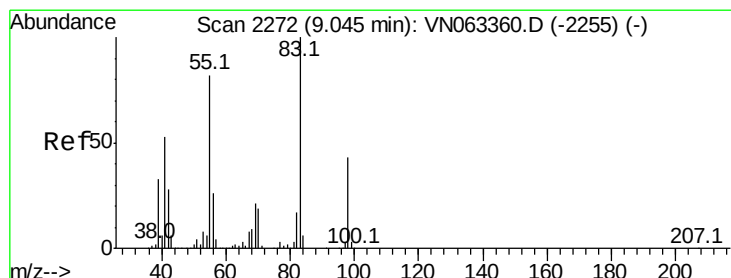
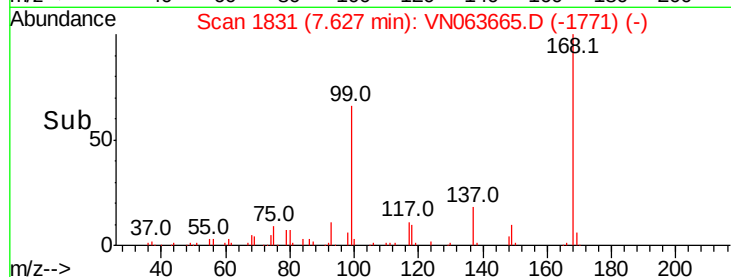
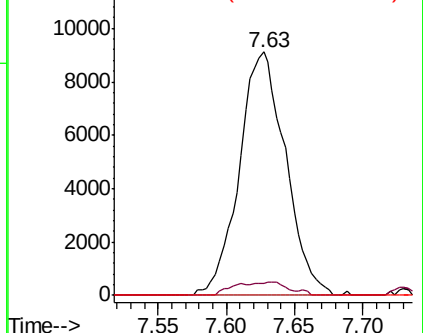
121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.694 ug/l

RT: 8.80 min Scan# 2195

Delta R.T. -0.25 min

Lab File: VN063665.D

Acq: 25 Sep 2020 7:01

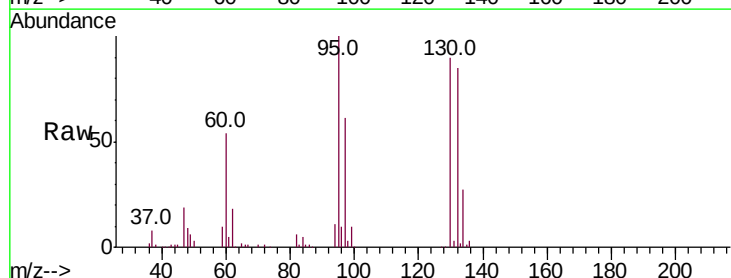
Tgt Ion: 83 Resp: 2891

Ion Ratio Lower Upper

83 100

55 0.0 65.5 98.3#

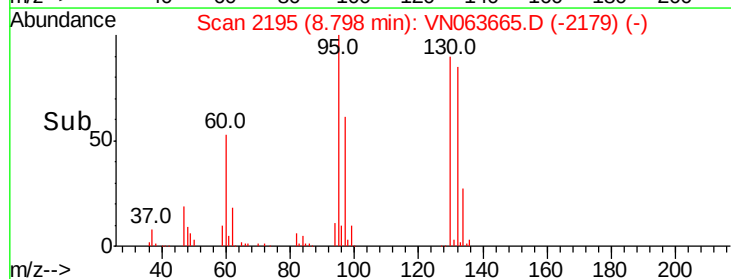
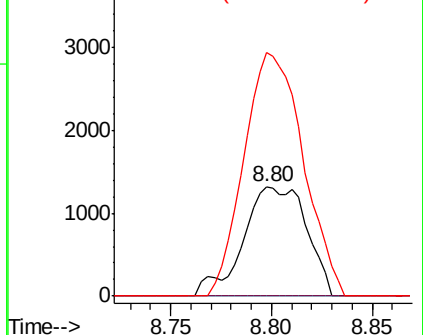
98 222.5 34.2 51.4#

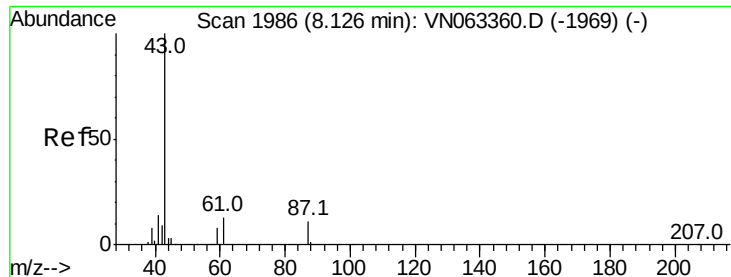


Abundance Ion 83.00 (82.70 to 83.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 98.00 (97.70 to 98.70): VNO





#43

Isopropyl Acetate

Concen: 1.376 ug/l

RT: 8.26 min Scan# 2027

Delta R.T. 0.13 min

Lab File: VN063665.D

Acq: 25 Sep 2020 7:01

Instrument :

MSVOA\_N

ClientSampleId :

TT101D2-20200922

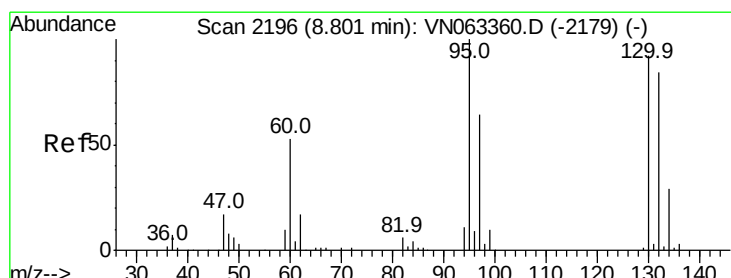
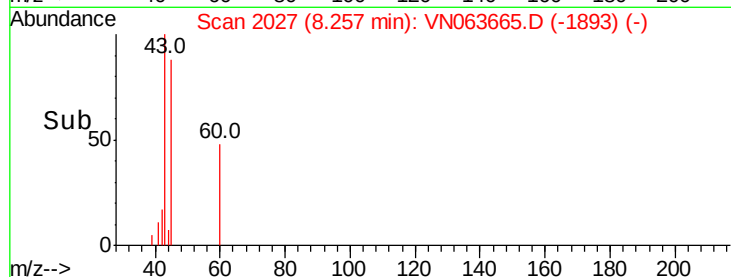
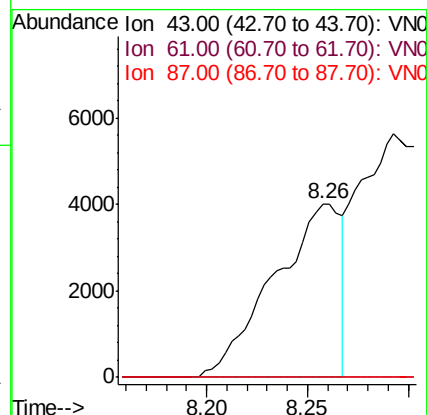
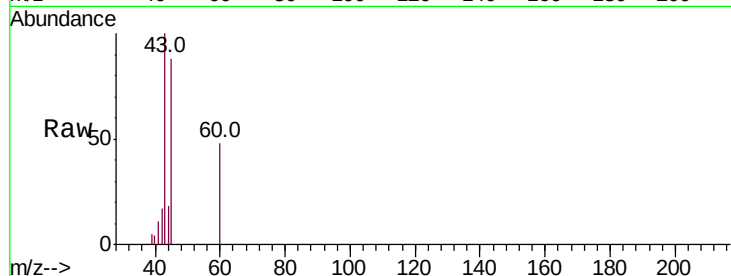
Tot Ion: 43 Resp: 9277

Ion Ratio Lower Upper

43 100

61 0.0 14.2 21.2#

87 0.0 9.0 13.6#



#44

Trichloroethene

Concen: 78.592 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN063665.D

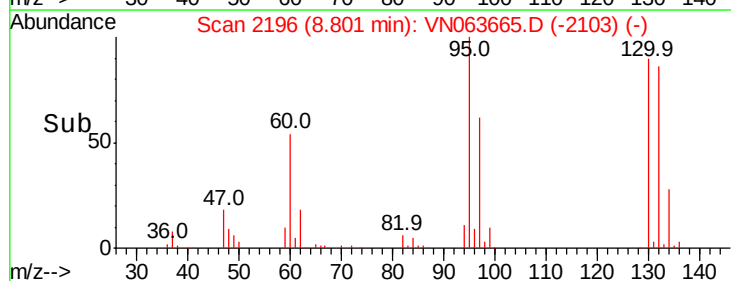
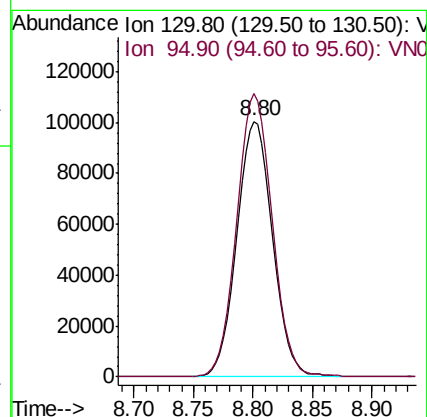
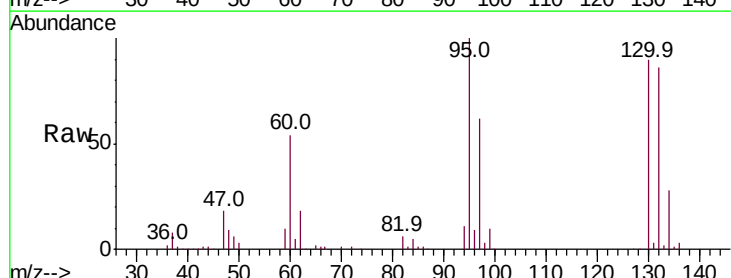
Acq: 25 Sep 2020 7:01

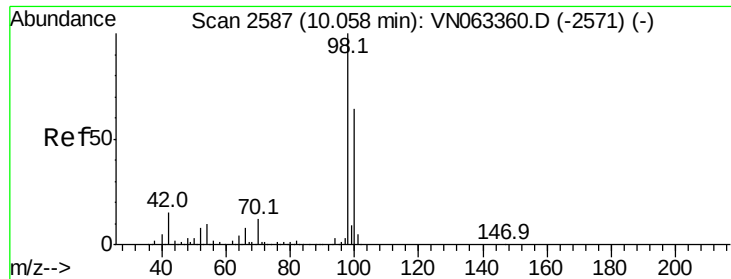
Tgt Ion: 130 Resp: 208979

Ion Ratio Lower Upper

130 100

95 110.8 0.0 217.4





#50

Toluene-d8

Concen: 49.766 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063665.D

Acq: 25 Sep 2020 7:01

Instrument :

MSVOA\_N

ClientSampleId :

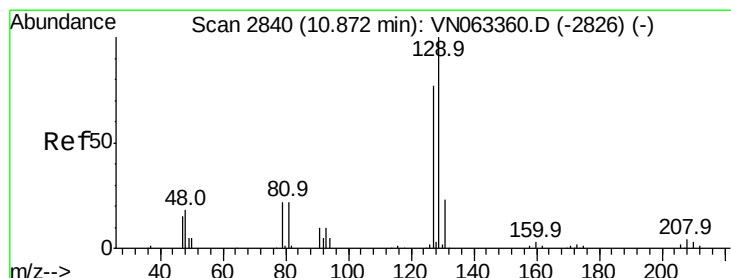
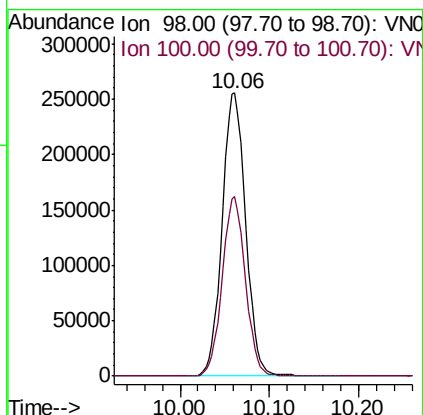
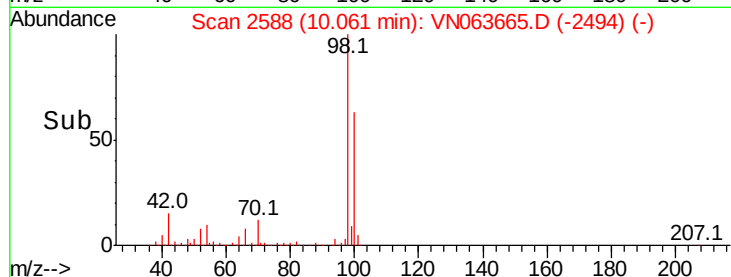
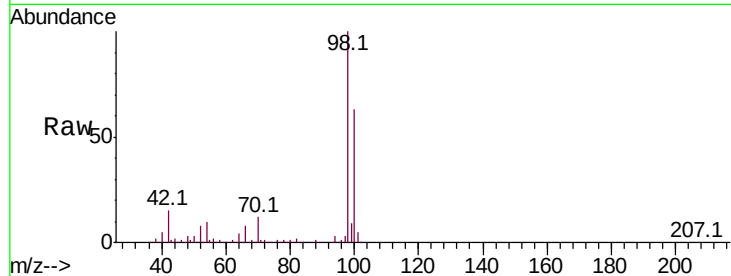
TT101D2-20200922

Tot Ion: 98 Resp: 466991

Ion Ratio Lower Upper

98 100

100 62.3 50.7 76.1



#60

Dibromochloromethane

Concen: 0.203 ug/l

RT: 10.60 min Scan# 2756

Delta R.T. -0.27 min

Lab File: VN063665.D

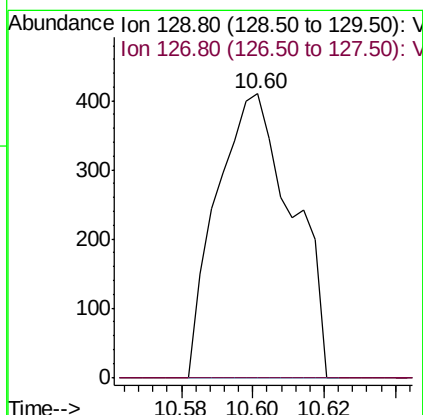
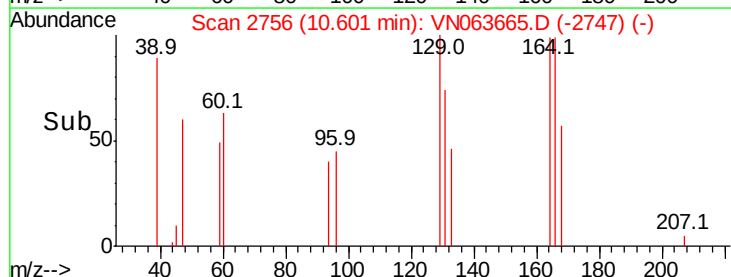
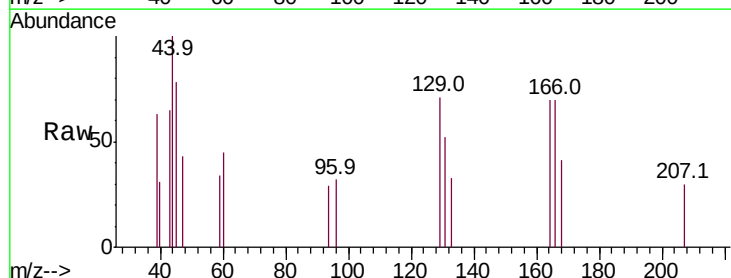
Acq: 25 Sep 2020 7:01

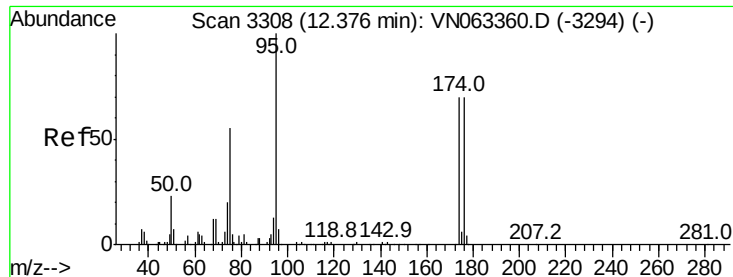
Tgt Ion: 129 Resp: 601

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.3#

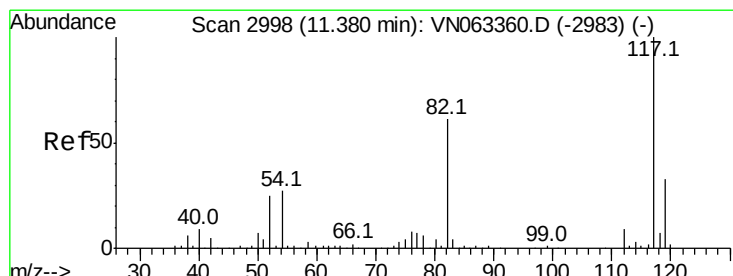
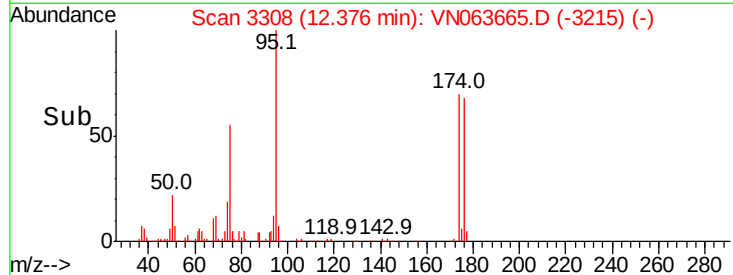
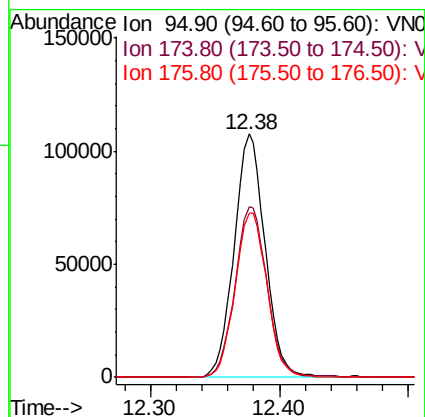
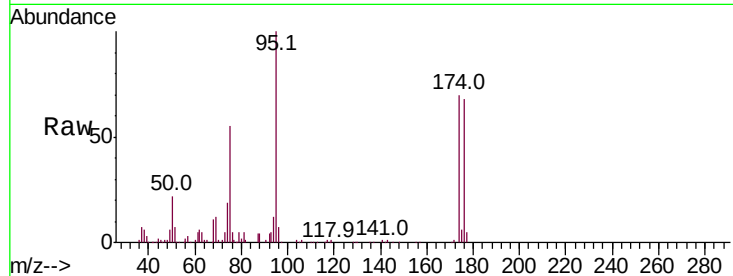




#62  
4-Bromofluorobenzene  
Concen: 52.147 ug/l  
RT: 12.38 min Scan# 3308  
Delta R.T. -0.00 min  
Lab File: VN063665.D  
Acq: 25 Sep 2020 7:01

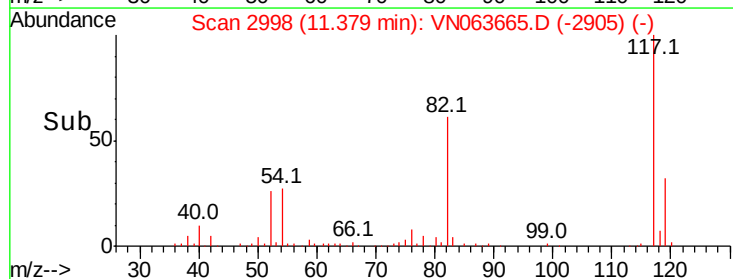
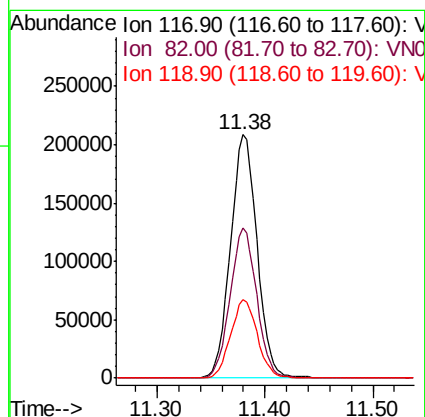
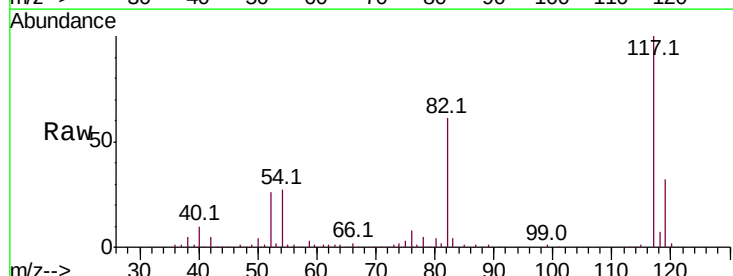
Instrument :  
MSVOA\_N  
ClientSampleId :  
TT101D2-20200922

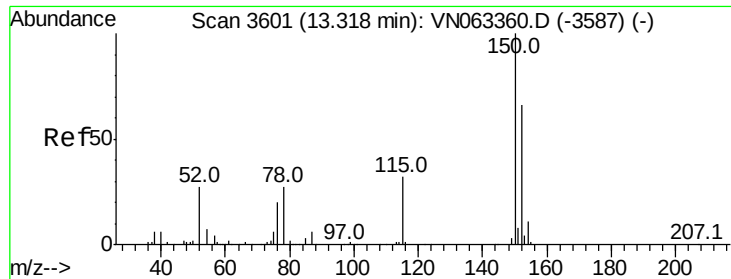
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 95    | Resp: | 179380 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 174      | 71.9  | 0.0   | 140.8  |
| 176      | 69.5  | 0.0   | 137.6  |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2998  
Delta R.T. -0.00 min  
Lab File: VN063665.D  
Acq: 25 Sep 2020 7:01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 358946 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 61.5  | 49.2  | 73.8   |
| 119      | 32.1  | 26.2  | 39.4   |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063665.D

Acq: 25 Sep 2020 7:01

Instrument :

MSVOA\_N

ClientSampleId :

TT101D2-20200922

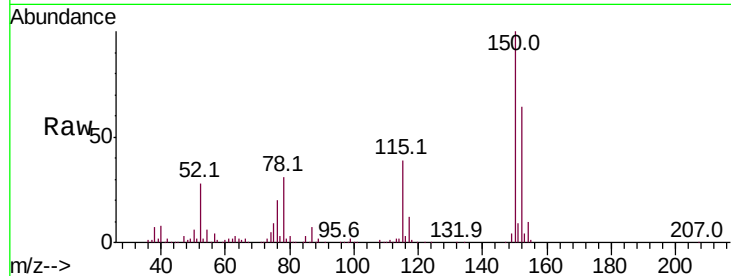
Tot Ion:152 Resp: 152008

Ion Ratio Lower Upper

152 100

115 63.5 32.2 96.6

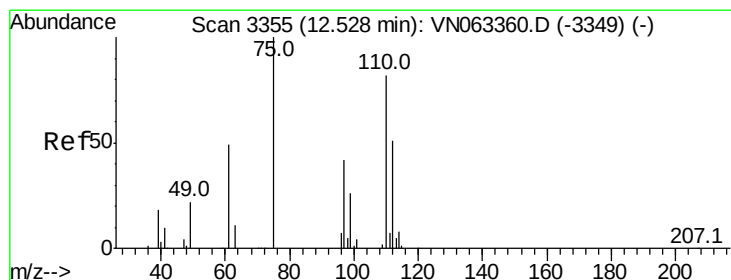
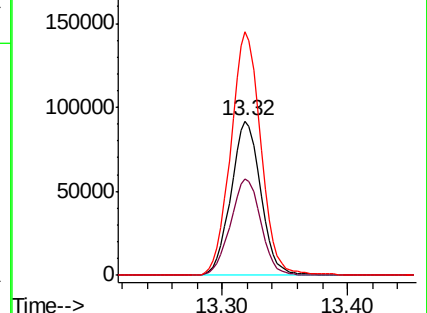
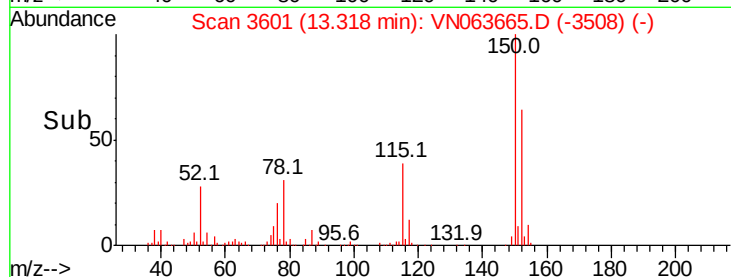
150 157.6 0.0 343.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 26.986 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063665.D

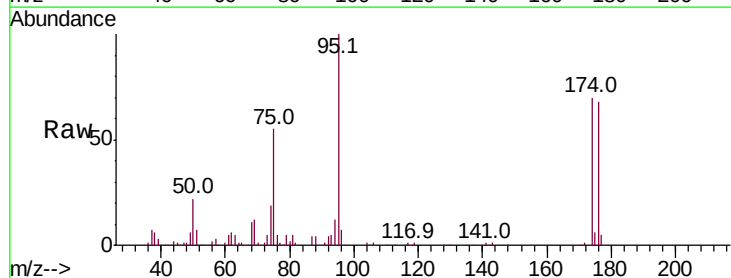
Acq: 25 Sep 2020 7:01

Tgt Ion: 75 Resp: 101531

Ion Ratio Lower Upper

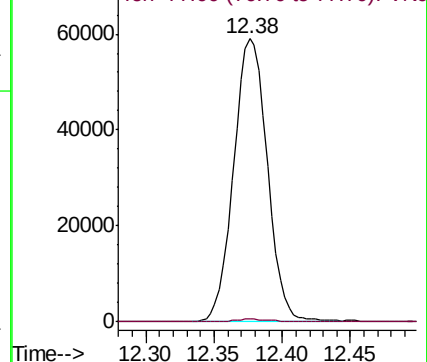
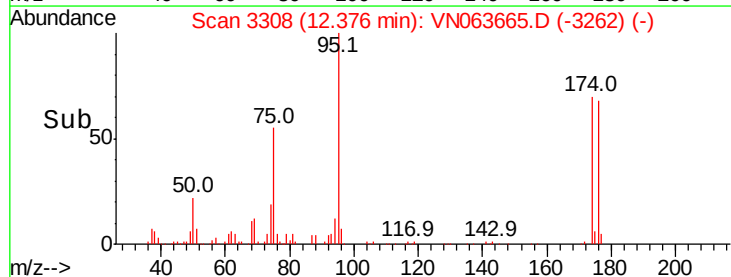
75 100

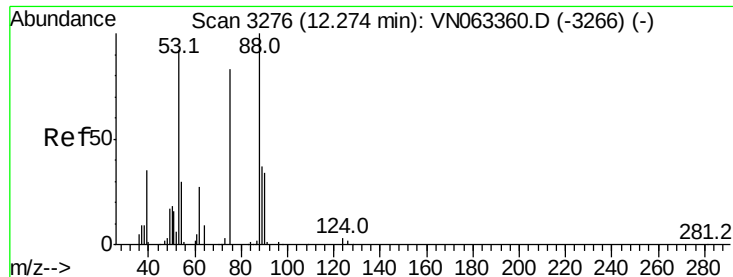
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 73.984 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063665.D

Acq: 25 Sep 2020 7:01

Instrument :

MSVOA\_N

ClientSampleId :

TT101D2-20200922

Tot Ion: 75 Resp: 101531

Ion Ratio Lower Upper

75 100

53 0.2 85.7 128.5#

89 0.0 38.0 57.0#

